

REMARKS

In response to the Office Action mailed November 30, 2004, Applicants respectfully request reconsideration. Claims 1-14 were previously pending in this application. Claims 1-14 have been amended. New claims 15-42 have been added. As a result, claims 1-42 are pending for examination with claims 1, 15, and 30 being independent claims. No new matter has been added.

Applicants note with appreciation the indication of allowable subject matter in claims 6-14.

Rejections under 35 U.S.C. §112

Claims 2 and 3 were rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 2 has been amended to clarify the structure that is being claimed. Claim 3 has been amended to depend from claim 2.

Accordingly, withdrawal of the rejection of claims 2 and 3 under 35 U.S.C. §112 is respectfully requested.

Rejections Under 35 U.S.C. §102

Claims 1-5 were rejected under 35 U.S.C. §102 as being anticipated by Disney (U.S. Patent No. 6,781,198). Applicants respectfully traverse this rejection.

Disney is directed to a vertical transistor having source regions 27 and body regions 26. As shown in FIG. 1, source regions 27 and body regions 26 are situated near the surface of the semiconductor chip under the gate 30. In FIG. 1, Disney shows source regions 27 and body regions 26 which do not extend substantially across an entire thickness of the semiconductor chip.

By contrast, claim 1, as amended, recites a MOS-type power component in which all of the active regions extend perpendicularly to a surface of a semiconductor chip substantially across an entire thickness thereof. Therefore, claim 1 patentably distinguishes over Disney. Accordingly, withdrawal of this rejection is respectfully requested.

Claims 2-14 depend from claim 1, and are allowable for at least the same reasons.

New Claims

Claim 15 has been added to more clearly define applicants' contribution to the art. Claim 15 recites a MOS-type power component that includes a substrate, active regions extending through the substrate, and contacts extending through the substrate and contacting the active regions. Claim 15 is allowable because the art of record does not teach or suggest a MOS-type power component that includes contacts extending through the substrate and contacting the active regions.

Claims 16-29 depend from claim 15 and are therefore patentable for at least the same reasons.

Claim 30 has been added to more clearly define applicants' contribution to the art. Claim 28 recites a MOS-type power component in which active regions extend perpendicularly to a surface of a semiconductor chip substantially across an entire thickness thereof. Contacts with the active regions are made by conductive fingers that substantially cross the entire thickness of the semiconductor chip. Claim 28 is allowable because the art of record does not or suggest a MOS-type power component that include conductive fingers that substantially cross the entire thickness of the semiconductor chip.

Claims 31-42 depend from claim 30 and are therefore patentable for at least the same reasons.

Serial No.: 10/762,592
Conf. No.: 3018

- 11 -

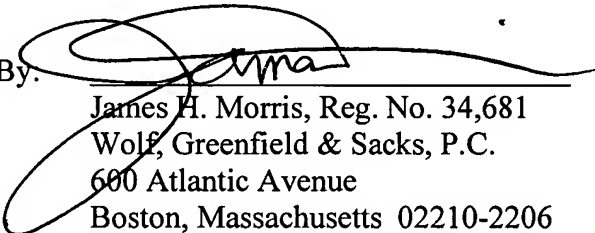
Art Unit: 2815

CONCLUSION

A Notice of Allowance is respectfully requested. The Examiner is requested to call the undersigned at the telephone number listed below if this communication does not place the case in condition for allowance.

If this response is not considered timely filed and if a request for an extension of time is otherwise absent, Applicant hereby requests any necessary extension of time. If there is a fee occasioned by this response, including an extension fee, that is not covered by an enclosed check, please charge any deficiency to Deposit Account No. 23/2825.

Respectfully submitted,
Jean-Baptiste Quoirin et al., Applicants

By. 
James H. Morris, Reg. No. 34,681
Wolf, Greenfield & Sacks, P.C.
600 Atlantic Avenue
Boston, Massachusetts 02210-2206
Telephone: (617) 646-8000

Docket No.: S1022.81119US00
Date: May 26, 2005
x05/30/05x